

IN THE CLAIMS

Claims 1-5, 7-10, 13, 17, and 19 have been amended:

1. (CURRENTLY AMENDED) A method for displaying signal strengths of each channel of a digital broadcast receiver, comprising:

establishing a user defined minimum signal strength;

sequentially scanning each of the channels for digital broadcast signals from a tuner receiving the digital broadcast signals; and

~~displaying channel numbers of the scanned channels, the number of channels scanned, a signal strength of each scanned channel, and a combined signal strength of the entire scanned channels in an OSD (On-Screen-Display) form;~~

displaying channel information relating to a scanned channel when a signal strength of the scanned channel equals or exceeds the minimum signal strength, wherein the channel information comprises a channel number and the signal strength of the scanned channel; and

displaying the total number of channels that equal or exceed the minimum signal strength and the combined signal strength of the total number of channels that equal or exceed the minimum signal.

2. (CURRENTLY AMENDED) The method for displaying signal strengths of claim 1 further comprising:

storing the sequentially scanned channel information and the signal strength of each scanned channel of each channel that equals or exceeds the minimum signal strength.

3. (CURRENTLY AMENDED) The method for displaying signal strengths of claim 1, wherein the channel information of the channels that equal or exceed the minimum signal strength ~~numbers of the scanned channels, and~~ the number and the combined signal strength of the channels that equal or exceed the minimum signal strength ~~of scanned channels, the signal strength of~~

~~each scanned channel, and the combined signal strength are outputted as a voice.~~

4. (CURRENTLY AMENDED) The method for displaying signal strengths of claim 1, wherein, in the channel scanning, the signal strength of every scanned channel that equals or exceeds the minimum signal strength is displayed ~~in the OSD form~~ on a display through an auto channel scanning.

5. (CURRENTLY AMENDED) The method for displaying signal strengths of claim 1, wherein the signal strength of each scanned channel that equals or exceeds the minimum signal strength is displayed in picture and numerals.

6. (ORIGINAL) The method for displaying signal strengths of claim 1, wherein the broadcast signal received through the tuner includes audio, video and PSIP (program Program and System Information Protocol) data.

7. (CURRENTLY AMENDED) A method for displaying signal strengths of each channel of a digital broadcast receiver, comprising:

establishing a user defined minimum signal strength;

sequentially scanning channels for broadcast signals from a tuner receiving broadcast signals;

displaying on a display screen channel information relating to a scanned channel when a signal strength of the scanned channel equals or exceeds the minimum signal strength, wherein the channel information comprises a channel number and the signal strength of the scanned channel;

storing the sequentially-scanned channel information when the signal strength of the scanned channel equals or exceeds the minimum signal strength and a signal strength of each scanned channel;

sequentially outputting the sequentially-scanned channel information and the signal strength of each scanned channel to a screen;

determining whether the scanned channel is a final channel, and if not, repeatedly performing the series of steps as described above if the scanned channel is not the final channel; and

if the scanned channel is the final channel, displaying the total number of channels that equal or exceed the minimum signal strength and the combined signal strength of the total number of channels that equal or exceed the minimum signal.

~~determining whether the scanned channel is the final channel, and outputting the number of channels scanned through the channel scanning step and a combined signal strength of the entire scanned channels in an OSD form on the screen.~~

8. (CURRENTLY AMENDED) The method for displaying signal strengths of claim 7, wherein, in the step of outputting in the OSD form; when the scanned channel is the final channel, provide the channel information of the channels that equal or exceed the minimum signal strength numbers, and the number and the combined signal strength of the channels that equal or exceed the minimum signal strength of channels scanned; signal strength of each scanned channel and the combined signal strength of the entire scanned channels are outputted as a picture, a numeral or a voice.

9. (CURRENTLY AMENDED) An apparatus for displaying signal strengths of each channel of a digital broadcast receiver comprising:

a signal strength searching unit searching a signal strength of a channel for a broadcast signal being currently tuned;

a decoding unit outputting a value of the signal strength searched by the signal strength searching unit as a video signal; and

a microcomputer coupled to the decoding unit and configured to receive a user defined minimum signal strength, to compare the signal strength of the tuned channel with the user defined minimum signal strength, and if the tuned channel signal strength equals or exceed the user defined minimum signal strength, to display channel information and the total number of channels and the

combined signal strength of the total number of channels that equal or exceed the user defined minimum signal strength, wherein the channel information comprises a channel number and the signal strength of the tuned channel.

a microcomputer controlling the decoding unit to display the signal strength of the tuned channel searched by the signal strength searching unit on a screen, and

wherein the microcomputer displays the channel numbers, the number of tuned channels, signal strengths of each tuned channel, and a combined signal strength value of the entire tuned channels.

10. (CURRENTLY AMENDED) The apparatus for displaying signal strengths of claim 9 further comprising:

a signal strength storing unit storing the signal strength values of the tuned channels that equal or exceed the user defined minimum signal strength searched by the signal strength searching unit; and

a video display processor converting the video signal outputted from the decoding unit to such a suitable form as to be outputted to a screen.

11. (PREVIOUSLY PRESENTED) The apparatus for displaying signal strengths of claim 9 further comprising:

a tuner unit receiving a digital broadcast signal and outputting it in a transmission stream form;

a demodulator decoding the transmission stream received through the tuner and correcting an error; and

a demultiplexing unit extracting audio, video, and data from the transmission stream received through the demodulator.

12. (ORIGINAL) The apparatus for displaying signal strengths of claim 11, wherein the decoding unit decodes the audio, video and additional data extracted by the demultiplexing unit to output an audio, video and additional data signal, and outputs signal strength values searched by the signal strength searching unit as a video signal.

13. (CURRENTLY AMENDED) The apparatus for displaying signal strengths of claim 12, wherein the microcomputer controls the decoding unit to output the channel information of the channels that equal or exceed the minimum signal strength numbers, and the number and the combined signal strength of the tuned channels that equal or exceed the minimum signal strength of tuned channels, signal strength value of each tuned channel, and the combined signal strength value of the entire tuned channels as a voice.

14. (PREVIOUSLY PRESENTED) The apparatus for displaying signal strengths of claim 11, wherein the decoding unit comprises:

- a video decoder decoding the video data extracted by the demultiplexing unit and outputting a video signal;
- an audio decoder decoding the audio data extracted by the demultiplexing unit and outputting an audio signal; and
- a PSI/PSIP decoder decoding the additional data extracted by the demultiplexing unit and outputting an additional data signal.

15-16 (CANCELLED)

17. (CURRENTLY AMENDED) An apparatus for displaying signal strengths of each channel of a digital broadcast receiver comprising:

- a tuner unit receiving a digital broadcast signal and outputting it in a transmission stream form;
- a demodulator decoding the transmission stream received through the tuner and correcting an error;
- a signal strength searching unit searching a signal strength of a channel being currently tuned by the tuner unit;
- ~~a signal strength storing unit storing the signal strength value searched by the signal strength searching unit;~~
- a demultiplexing unit extracting audio, video, and additional data ~~or the like~~ from the transmission stream received through the demodulator;

a decoding unit decoding the audio, video video, and additional data extracted by the demultiplexing unit to output audio, video video, and data signals, and outputting the signal strength value searched by the signal strength searching unit as a video signal;

a video display processor (VDP) converting the video signal outputted from the decoding unit to such a suitable form as to be outputted to a screen; [[and]]

a microcomputer coupled to the decoding unit and configured to receive a user defined minimum signal strength, to compare the signal strength of the tuned channel with the user defined minimum signal strength, and if the tuned channel signal strength equals or exceed the user defined minimum signal strength, to display channel information and the total number of channels and the combined signal strength of the total number of channels that equal or exceed the user defined minimum signal strength, wherein the channel information comprises a channel number and the signal strength of the tuned channel.

a signal strength storing unit storing the signal strength value of each tuned channel when the tuned channel signal strength equals or exceed the user defined minimum signal strength.

~~a microcomputer controlling the decoding unit and outputting a signal strength of the tuned channels,~~

~~wherein the microcomputer controls the decoding unit to display the channel numbers, the number of tuned channels, signal strength value of each tuned channel, and a combined signal strength value of the entire tuned channels, in an OSD form on a screen.~~

18. (PREVIOUSLY PRESENTED) The apparatus for displaying signal strengths of claim 17, wherein the decoding unit comprises:

a video decoder decoding the video data extracted by the demultiplexing unit and outputting a video signal;

an audio decoder decoding the audio data extracted by the demultiplexing unit and outputting an audio signal; and

a PSI/PSIP decoder decoding the additional data extracted by the demultiplexing unit and outputting an additional data signal.

19. (CURRENTLY AMENDED) The apparatus for displaying signal strengths of claim 17, wherein the microcomputer controls the decoding unit to output the channel information of the channels that equal or exceed the minimum signal strength numbers, and the number and the combined signal strength of the tuned channels that equal or exceed the minimum signal strength of tuned channels, ~~signal strength value of each tuned channel, and the combined signal strength value of the entire tuned channels~~ as a voice.

20. (CANCELLED)